

AMENDMENT TO THE CLAIMS

1. (Canceled)

2. (Currently Amended) The cooling system in accordance with claim [[1]] 15, wherein an error signal at least one of triggers an alarm ~~and~~ or switches off a common electric current supply for all electronic component groups ~~(1)~~.

3. (Currently Amended) The cooling system in accordance with claim 2, wherein the cooling units ~~(4) have cooling elements through which coolant flows and~~ are thermally connected to temperature-sensitive, heat-producing electronic components.

Claims 4-6 (Canceled)

7. (Currently Amended) The cooling system in accordance with claim [[6]] 15, wherein the central liquid line system ~~(5)~~ is connected to ~~at least one of an air/liquid heat exchanger (8) and a liquid/liquid heat exchanger (6).~~

Serial No.: 10/525,551

Claims 8-12 (Canceled)

13. (Currently Amended) The cooling system in accordance with claim ~~[[1]]~~ 15, wherein the central liquid line system (5) is connected to ~~at least one of an air/liquid heat exchanger (8) and a liquid/liquid heat exchanger (6).~~

14. (Currently Amended) The cooling system in accordance with claim 13, wherein the liquid/liquid heat exchanger (6) is connected to a recooling arrangement (7).

15. (New) A liquid cooling system for a rack or switchgear cabinet, comprising:

liquid cooling units housed in the rack or switchgear cabinet, the liquid cooling units individually assigned to computer units, to be cooled, of electronic component groups also housed in the rack or switchgear cabinet;

a common central liquid line system integrated into the rack or switchgear cabinet, the central liquid line system including a line unit having an inlet conduit and a return conduit, at least a portion of the central liquid line system

Serial No.: 10/525,551

mounted vertically oriented in the rack or switchgear cabinet and provided over a length with a plurality of couplings forming branch points;

the liquid cooling units connected via the branch points to the common central liquid line system, and having cooling elements through which liquid flows;

a section of the central liquid line system attached to a vertical frame leg of the rack or switchgear cabinet, wherein a receptacle, open over its length in a direction toward an interior of the rack or switchgear cabinet, is integrated on or into the frame leg, and the section of the central liquid line system is inserted into the receptacle; and

a monitoring and control arrangement monitoring the cooling temperature in the central liquid line system and emitting an error signal upon one of a predetermined or predeterminable threshold temperature in a liquid return branch being exceeded, a predetermined or predeterminable threshold temperature difference between a temperature in the inlet branch and a temperature in the return branch being exceeded, or a liquid flow disturbance falls below a predetermined or predeterminable threshold value.

Serial No.: 10/525,551

16. (New) The cooling system in accordance with claim 15, wherein the plurality of couplings are equidistantly arranged along the central liquid line system.